

Product Information

MemDX™ Membrane Protein Human CACNA1S (Calcium voltage-gated channel subunit alpha1 S) Full Length

Cat. No.: **MPC0429K**

This product is for research use only and is not intended for diagnostic use.

This product is a 212.3 kDa Human CACNA1S membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

CACNA1S

Protein Length

Full length

Protein Class

Transporter; Ion channel

Molecular Weight

212.3 kDa

TMD

24

Sequence

MEPSSPQDEGLRKKQPKPVPEILPRPPRALFCLTLENPLRKACISIVEW
KPFETIILLTIFANCVALAVYLPMPEDDNNSLNLGLEKLEYFFLIVFSIE
AAMKIIAYGFLFHQDAYLRSGWNVLDFTIVFLGVFTVILEQVNVIQSHTA
PMSSKGAGLDVKALRAFRVLRPLRLVSGVPSLQVVLNSIFKAMLPLFHIA
LLVLFMVIIYAIIGLELFKGKMHKTCYFIGTDIVATVENEESPSCARTGS
GRRCTINGSECRGGWPGPNHGITHFDNFGFSMLTVYQCITMEGWTDVLYW
VNDAGNEWPWYFVTLILLGSFFILNLVLGVLSGEFTKEREKAKSRGTF
QKLREKQQLDEDLRGYMSWITQGEVMDVEDFREGKLSLDEGGSDTESLYE
IAGLNKIIQFIRHWRQWNRIFRWKCHDIVKSKVFYWLVLIVALNTLSIA
SEHHNQPLWLTRLQDIANRVLLSLFTTEMLMKMYGLGLRQYFMSIFNRFD
CFVVCSGILEILLVESGAMTPLGISVLR CIRLLRIFKITKYWTSLSNLVA
SLLNSIRSIASLLLLLFLFIVIFALLGMQLFGGRYDFEDTEVRRSNFDNF
PQALISVFQVLTGEDWTSMMYNGIMAYGGPSYPGMLVCIYFIILFVCGNY
ILLNVFLAIVDNLAESAESL TSAQKAKAEKKRRKMSKGLPKDSEEEKST
MAKKLEQKPKGEGIPTTAKLKIDEFESNVNEVKDPYP SADFP GDDEDEP
EIPLSPRRPLAELQLKEKAVPIPEASSFFIFSP TNKIRVLCHRIVNATW
FTNFILLFILLSSAALAAEDPIRADSMRNQILKHFDIGFTSVFTVEIVLK
MTTYGAFLHKGSFCRNYFNMLDLLVVAVSLISMGLESSAISVVKILRVLR
VLRPLRAINRAKGLKHVVQCMFVAISTIGNIVLVTTLLQFMFACIGVQLF

KGKFFRCTDLSKMTTEECRGYYYVYKDGDPMQIELRHREWWHSDHFHFDNV
LSAMMSLFTVSTFEGWPQLLYKAIDSNAEDVGPIYNNRVEMAIFFIYII
LIAFFMMNIFVGFVIVTFQEQGETEYKNCELDKNQRQCVQYALKARPLRC
YIPKNPYQYQVWYIVTSSYFEYLMFALIMLNTICLGMQHYNQSEQMNHIS
DILNVAFTIIFTLEMILKLMAFKARGYFGDPWNVDFDLIVIGSIIDVILS
EIDTFLASSGGLYCLGGGCGNVDPDESARISSAFFRLFRVMRLIKLLSRA
EGVRTLLWTFIKSFQALPYVALLIVMLFFIYAVIGMQMFGKIALVDGTQI
NRNNNFQTFPQAVLLLFRCATGEAWQEILLACSYGKLCDPESDYAPGEEY
TCGTNFAYYYYFISFYMLCAFLVINLFFVAVIMDNFDYLTRDWSILGPHHLD
EFKAIWAEYDPEAKGRIKHLDDVVTLLRRIQPPLGFGKFCPHRVACKRLVG
MNMPLNSDGTVTFNATLFAVVRTALKIKTEGNFEQANEELRAIKKIWK
TSMKLLDQVIPPIGDDEVTVGKFYATFLIQEHFRKFMKRQEEYYGYRPPK
DIVQIQAGLRTIEEEAAPEICRTVSGDLAAEEELERAMVEAAMEEGIFRR
TGGLFGQVDNFLERTNSLPPVMANQRPLQFAEIEEMESPVFLEDFPQD
PRTNPLARANTNNANANVAYGNSNHSNSHVSSVHYEREFPEETETPATR
GRALGQPCRVLGPHSKPCVEMLKGLLTQRAMPRGQAPPAPCQCPRVESSM
PEDRKSSTPGSLHEETPHSRSTRENTSRCSAPATALLIQKALVRGGLGTL
AADANFIMATGQALADACQMEPEEVEIMATELLKGREAPEGMASSLGCLN
LGSSLSLDQHQGSQETLIPRL

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

CACNA1S

Full Name

Calcium voltage-gated channel subunit alpha1 S

Introduction

This gene encodes one of the five subunits of the slowly inactivating L-type voltage-dependent calcium channel in skeletal muscle cells. Mutations in this gene have been associated with hypokalemic periodic paralysis, thyrotoxic periodic paralysis and malignant hyperthermia susceptibility.

Alternative Names

MHS5; HOKPP; TTPP1; Cav1.1; HOKPP1; hypoPP; CCHL1A3; CACNL1A3; voltage-dependent L-type calcium channel subunit alpha-1S; calcium channel, voltage-dependent, L type, alpha 1S subunit; dihydropyridine receptor alpha 1 subunit; dihydropyridine-sensitive L-type calcium channel alpha-1 subunit; voltage-gated calcium channel subunit alpha Cav1.1; CACNA1S; Calcium voltage-gated channel subunit alpha1 S

Gene ID

[779](#)

UniProt ID

[Q13698](#)